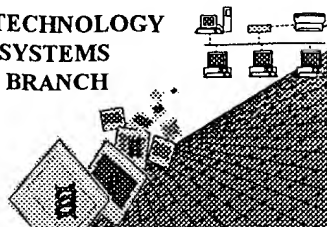


n/a

## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



1153  
#17  
Lawrence  
1/10/03

RECEIVED

NOV 26 2002

TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/601,965B  
Source: 1600 REISH  
Date Processed by STIC: 11/21/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1600

## RAW SEQUENCE LISTING

DATE: 11/21/2002

PATENT APPLICATION: US/09/601,965B

TIME: 11:38:09

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF4\11212002\I601965B.raw

3 <110> APPLICANT: Thompson, M. Craig  
 4 Long, Fan  
 5 Wobbe, C. Richard  
 7 <120> TITLE OF INVENTION: A NOVEL FUNGAL MULTISUBUNIT PROTEIN  
 8 COMPLEX CRITICAL FOR EXPRESSION OF FUNGAL PROTEINS  
 10 <130> FILE REFERENCE: 0342/1D516US2  
 12 <140> CURRENT APPLICATION NUMBER: US 09/601,965B  
 13 <141> CURRENT FILING DATE: 2000-10-20  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US99/02940  
 16 <151> PRIOR FILING DATE: 1999-02-08  
 18 <150> PRIOR APPLICATION NUMBER: 60/074,100  
 19 <151> PRIOR FILING DATE: 1998-02-09  
 21 <160> NUMBER OF SEQ ID NOS: 32  
 23 <170> SOFTWARE: FastSEQ for Windows Version 3.0

## ERRORED SEQUENCES

1410 <210> SEQ ID NO: 22  
 1411 <211> LENGTH: 0  
 1412 <212> TYPE: DNA  
 1413 <213> ORGANISM: Homo sapiens  
 1415 <400> SEQUENCE: 22

*1234 shown (p.4)*  
*incorrect*  
*this sequence is a PRT sequence*  
*Does Not Comply*  
*Corrected Diskette Needed*

1416 Met Gly Pro Gly Cys Asp Leu Leu Leu Arg Thr Ala Ala Thr Ile Thr  
 1417 1 5 10 15  
 1418 Ala Ala Ala Ile Met Ser Asp Thr Asp Ser Asp Glu Asp Ser Ala Gly  
 1419 20 25 30  
 1420 Gly Gly Pro Phe Ser Leu Ala Gly Phe Leu Phe Gly Asn Ile Asn Gly  
 1421 35 40 45  
 1422 Ala Gly Gln Leu Glu Gly Glu Ser Val Leu Asp Asp Glu Cys Lys Lys  
 1423 50 55 60  
 1424 His Leu Ala Gly Leu Gly Ala Leu Gly Leu Gly Ser Leu Ile Thr Glu  
 1425 65 70 75 80  
 1426 Leu Thr Ala Asn Glu Glu Leu Thr Gly Thr Asp Gly Ala Leu Val Asn  
 1427 85 90 95  
 1428 Asp Glu Gly Trp Val Arg Ser Thr Glu Asp Ala Val Asp Tyr Ser Asp  
 1429 100 105 110  
 1430 Ile Asn Glu Val Ala Glu Asp Glu Ser Arg Arg Tyr Gln Gln Thr Met  
 1431 115 120 125  
 1432 Gly Ser Leu Gln Pro Leu Cys His Ser Asp Tyr Asp Glu Asp Asp Tyr  
 1433 130 135 140  
 1434 Asp Ala Asp Cys Glu Asp Ile Asp Cys Lys Leu Met Pro Pro Pro Pro  
 1435 145 150 155 160

## RAW SEQUENCE LISTING

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```

1436 Pro Pro Pro Gly Pro Met Lys Lys Asp Lys Asp Gln Asp Ser Ile Thr
1437          165          170          175
1438 Gly Glu Lys Val Asp Phe Ser Ser Ser Ser Asp Ser Glu Ser Glu Met
1439          180          185          190
1440 Gly Pro Gln Glu Ala Thr Gln Ala Glu Ser Glu Asp Gly Lys Leu Thr
1441          195          200          205
1442 Leu Pro Leu Ala Gly Ile Met Gln His Asp Ala Thr Lys Leu Leu Pro
1443          210          215          220
1444 Ser Val Thr Glu Leu Phe Pro Glu Phe Arg Pro Gly Lys Val Leu Arg
1445          225          230          235          240
1446 Phe Leu Arg Leu Phe Gly Pro Gly Lys Asn Val Pro Ser Val Trp Arg
1447          245          250          255
1448 Ser Ala Arg Arg Lys Arg Lys Lys Lys His Arg Glu Leu Ile Gln Glu
1449          260          265          270
1450 Glu Gln Ile Gln Glu Val Glu Cys Ser Val Glu Ser Glu Val Ser Gln
1451          275          280          285
1452 Lys Ser Leu Trp Asn Tyr Asp Tyr Ala Pro Pro Pro Pro Pro Glu Gln
1453          290          295          300
1454 Cys Leu Ser Asp Asp Glu Ile Thr Met Met Ala Pro Val Glu Ser Lys
1455          305          310          315          320
1456 Phe Ser Gln Ser Thr Gly Asp Ile Asp Lys Val Thr Asp Thr Lys Pro
1457          325          330          335
1458 Arg Val Ala Glu Trp Arg Tyr Gly Pro Ala Arg Leu Trp Tyr Asp Met
1459          340          345          350
1460 Leu Gly Val Pro Glu Asp Gly Ser Gly Phe Asp Tyr Gly Phe Lys Leu
1461          355          360          365
1462 Arg Lys Thr Glu His Glu Pro Val Ile Lys Ser Arg Met Ile Glu Glu
1463          370          375          380
1464 Phe Arg Lys Leu Glu Glu Asn Asn Gly Thr Asp Leu Leu Ala Asp Glu
1465          385          390          395          400
1466 Asn Phe Leu Met Val Thr Gln Leu His Trp Glu Asp Asp Ile Ile Trp
1467          405          410          415
1468 Asp Gly Glu Asp Val Lys His Lys Gly Thr Lys Pro Gln Arg Ala Ser
1469          420          425          430
1470 Leu Ala Gly Trp Leu Pro Ser Ser Met Thr Arg Asn Ala Met Ala Tyr
1471          435          440          445
1472 Asn Val Gln Gln Gly Phe Ala Ala Thr Leu Asp Asp Lys Pro Trp
1473          450          455          460
1474 Tyr Ser Ile Phe Pro Ile Asp Asn Glu Asp Leu Val Tyr Gly Arg Trp
1475          465          470          475          480
1476 Glu Asp Asn Ile Ile Trp Asp Ala Gln Ala Met Pro Arg Leu Leu Glu
1477          485          490          495
1478 Pro Pro Val Leu Thr Leu Asp Pro Asn Asp Glu Asn Leu Ile Leu Glu
1479          500          505          510
1480 Ile Pro Asp Glu Lys Glu Glu Ala Thr Ser Asn Ser Pro Ser Lys Glu
1481          515          520          525
1482 Ser Lys Lys Glu Ser Ser Leu Lys Lys Ser Arg Ile Leu Leu Gly Lys
1483          530          535          540
1484 Thr Gly Val Ile Lys Glu Glu Pro Gln Gln Asn Met Ser Gln Pro Glu

```

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/601,965B

TIME: 11:38:09

Input Set : A:\Sequence Listing (ASCII copy).txt

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```

1485 545 550 555 560
1486 Val Lys Asp Pro Trp Asn Leu Ser Asn Asp Glu Tyr Tyr Tyr Pro Lys
1487 565 570 575
1488 Gln Gln Gly Leu Arg Gly Thr Phe Gly Gly Asn Ile Ile Gln His Ser
1489 580 585 590
1490 Ile Pro Ala Val Glu Leu Arg Gln Pro Phe Phe Pro Thr His Met Gly
1491 595 600 605
1492 Pro Ile Lys Leu Arg Gln Phe His Arg Pro Pro Leu Lys Lys Tyr Ser
1493 610 615 620
1494 Phe Gly Ala Leu Ser Gln Pro Gly Pro His Ser Val Gln Pro Leu Leu
1495 625 630 635 640
1496 Lys His Ile Lys Lys Lys Ala Lys Met Arg Glu Gln Glu Arg Gln Ala
1497 645 650 655
1498 Ser Gly Gly Gly Glu Met Phe Phe Met Arg Thr Pro Gln Asp Leu Thr
1499 660 665 670
1500 Gly Lys Asp Gly Asp Leu Ile Leu Ala Glu Tyr Ser Glu Glu Asn Gly
1501 675 680 685
1502 Pro Leu Met Met Gln Val Gly Met Ala Thr Lys Ile Lys Asn Tyr Tyr
1503 690 695 700
1504 Lys Arg Lys Pro Gly Lys Asp Pro Gly Ala Pro Asp Cys Lys Tyr Gly
1505 705 710 715 720
1506 Glu Thr Val Tyr Cys His Thr Ser Pro Phe Leu Gly Ser Leu His Pro
1507 725 730 735
1508 Gly Gln Leu Leu Gln Ala Phe Glu Asn Leu Phe Arg Ala Pro Ile
1509 740 745 750
1510 Tyr Leu His Lys Met Pro Glu Thr Asp Phe Leu Ile Ile Arg Thr Arg
1511 755 760 765
1512 Gln Gly Tyr Tyr Ile Arg Glu Leu Val Asp Ile Phe Val Val Gly Gln
1513 770 775 780
1514 Gln Cys Pro Leu Phe Glu Val Pro Gly Pro Asn Ser Lys Arg Ala Asn
1515 785 790 795 800
1516 Thr His Ile Arg Asp Phe Leu Gln Val Phe Ile Tyr Arg Leu Phe Trp
1517 805 810 815
1518 Lys Ser Lys Asp Arg Pro Arg Arg Ile Arg Met Glu Asp Ile Lys Lys
1519 820 825 830
1520 Ala Phe Pro Ser His Ser Glu Ser Ile Arg Lys Arg Leu Lys Leu
1521 835 840 845
1522 Cys Ala Asp Phe Lys Arg Thr Gly Met Asp Ser Asn Trp Trp Val Leu
1523 850 855 860
1524 Lys Ser Asp Phe Arg Leu Pro Thr Glu Glu Glu Ile Arg Ala Met Val
1525 865 870 875 880
1526 Ser Pro Glu Gln Cys Cys Ala Tyr Tyr Ser Met Ile Ala Ala Glu Gln
1527 885 890 895
1528 Arg Leu Lys Asp Ala Gly Tyr Gly Glu Lys Ser Phe Phe Ala Pro Glu
1529 900 905 910
1530 Glu Glu Asn Glu Glu Asp Phe Gln Met Lys Ile Asp Asp Glu Val Arg
1531 915 920 925
1532 Thr Ala Pro Trp Asn Thr Thr Arg Ala Phe Ile Ala Ala Met Lys Gly
1533 930 935 940

```

## RAW SEQUENCE LISTING

DATE: 11/21/2002

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TIME: 11:38:09

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF4\11212002\I601965B.raw

```

1534 Lys Cys Leu Leu Glu Val Thr Gly Val Ala Asp Pro Thr Gly Cys Gly
1535 945                      950                      955                      960
1536 Glu Gly Phe Ser Tyr Val Lys Ile Pro Asn Lys Pro Thr Gln Gln Lys
1537                      965                      970                      975
1538 Asp Asp Lys Glu Pro Gln Pro Val Lys Lys Thr Val Thr Gly Thr Asp
1539                      980                      985                      990
1540 Ala Asp Leu Arg Arg Leu Ser Leu Lys Asn Ala Lys Gln Leu Leu Arg
1541                      995                      1000                      1005
1542 Lys Phe Gly Val Pro Glu Glu Glu Ile Lys Lys Leu Ser Arg Trp Glu
1543 1010                      1015                      1020
1544 Val Ile Asp Val Val Arg Thr Met Ser Thr Glu Gln Ala Arg Ser Gly
1545 1025                      1030                      1035                      1040
1546 Glu Gly Pro Met Ser Lys Phe Ala Arg Gly Ser Arg Phe Ser Val Ala
1547                      1045                      1050                      1055
1548 Glu His Gln Glu Arg Tyr Lys Glu Glu Cys Gln Arg Ile Phe Asp Leu
1549                      1060                      1065                      1070
1550 Gln Asn Lys Val Leu Ser Ser Thr Glu Val Leu Ser Thr Asp Thr Asp
1551                      1075                      1080                      1085
1552 Ser Ser Ser Ala Glu Asp Ser Asp Phe Glu Glu Met Gly Lys Asn Ile
1553 1090                      1095                      1100
1554 Glu Asn Met Leu Gln Asn Lys Lys Thr Ser Ser Gln Leu Ser Arg Glu
1555 1105                      1110                      1115                      1120
1556 Arg Glu Glu Gln Glu Arg Lys Glu Leu Gln Arg Met Leu Leu Ala Ala
1557                      1125                      1130                      1135
1558 Gly Ser Ala Ala Ser Gly Asn Asn His Arg Asp Asp Asp Thr Ala Ser
1559                      1140                      1145                      1150
1560 Val Thr Ser Leu Asn Ser Ser Ala Thr Gly Arg Cys Leu Lys Ile Tyr
1561                      1155                      1160                      1165
1562 Arg Thr Phe Arg Asp Glu Glu Gly Lys Glu Tyr Val Arg Cys Glu Thr
1563 1170                      1175                      1180
1564 Val Arg Lys Pro Ala Val Ile Asp Ala Tyr Val Arg Ile Arg Thr Thr
1565 1185                      1190                      1195                      1200
1566 Lys Asp Glu Glu Phe Ile Arg Lys Phe Ala Leu Phe Asp Glu Gln His
1567                      1205                      1210                      1215
1568 Arg Glu Glu Met Arg Lys Glu Arg Arg Arg Ile Gln Glu Gln Leu Arg
1569                      1220                      1225                      1230

```

E--&gt; 1570 Arg Leu

## VERIFICATION SUMMARY

DATE: 11/21/2002

PATENT APPLICATION: US/09/601,965B

TIME: 11:38:10

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF4\11212002\I601965B.raw

L:1306 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:1307 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1314 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:12  
L:1314 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:12  
L:1314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:1319 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:1320 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1331 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14  
L:1332 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1343 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15  
L:1344 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1351 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:15  
L:1351 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:15  
L:1351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:1356 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16  
L:1357 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1366 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17  
L:1367 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1376 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:1377 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1379 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1385 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19  
L:1386 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1388 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1394 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20  
L:1395 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1404 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21  
L:1405 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1407 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1570 M:301 E: (44) No Sequence Data was Shown, SEQ ID:22  
L:1623 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29  
L:1624 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1633 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30  
L:1634 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1643 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31  
L:1644 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1653 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32  
L:1654 M:283 W: Missing Blank Line separator, <220> field identifier

## VARIABLE LOCATION SUMMARY

DATE: 11/21/2002

PATENT APPLICATION: US/09/601,965B

TIME: 11:38:10

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF4\11212002\I601965B.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:12; N Pos. 15

Seq#:15; N Pos. 12